

What is claimed is:

1. A disc drive comprising:

a tray for holding a disc;

a lower case on which the tray is installed to be slid;

a loading motor for providing a driving force that slides the tray; and

a spindle motor having a turntable and being installed on the tray;

wherein the disc is secured to the turntable for being rotated by the spindle motor.

2. The disc drive of claim 1, further comprising:

a fixing unit disposed by the turntable for securely holding the disc to the turntable.

3. The disc drive of claim 2, wherein the fixing unit securely holds the disc to the turntable at a perimeter of a clamping hole of the disc.

4. The disc drive of claim 2, wherein the fixing unit is comprised of a plurality of hooks that elastically engage with a perimeter of a clamping hole of the disc.

5. The disc drive of claim 4, wherein the hooks are disposed around a shaft of the spindle motor and above the turntable.

6. The disc drive of claim 1, wherein the lower case comprises:

a first region in which the tray is slid; and

a second region, extended sideways from the first region, and on which the loading motor is disposed.

7. The disc drive of claim 1, further comprising:

an optical pickup installed on the tray, the optical pickup moving in a radial direction of the optical disc to write and/or reproduce information on the optical disc.

8. The disc drive of claim 1, wherein the disc drive is a slim vertical optical disc drive.

9. The disc drive of claim 1, wherein the disc drive is a half height type optical disc drive.

10. A disc drive comprising:

a tray for holding a disc, the tray being loaded/unloaded by a loading motor;  
a spindle motor having a turntable and being installed on the tray; and  
means for securing the disc to the turntable.

11. The disc drive of claim 10, wherein the means for securing holds the disc to the turntable by engaging with a perimeter of a clamping hole of the disc.

12. The disc drive of claim 10, further comprising:

an optical pickup installed on the tray, the optical pickup moving in a radial direction of the optical disc to write and/or reproduce information on the optical disc.

13. The disc drive of claim 10, wherein the disc drive is a slim vertical optical disc drive.

14. The disc drive of claim 10, wherein the disc drive is a half height type optical disc drive.